DESCRIPTION

*Public Health* is an international, multidisciplinary peer-reviewed journal. It publishes original papers, reviews and short reports on all aspects of the science, philosophy, and practice of public health.

It is aimed at all public health practitioners and researchers and those who manage and deliver public health services and systems. It will also be of interest to anyone involved in provision of public health programmes, the care of populations or communities and those who contribute to public health systems in any way.

Published twelve times a year, *Public Health* considers submissions on any aspect of public health across age groups and settings.

These include:
- Public health practice and impact
- Applied Epidemiology
- Need or impact assessments
- Health service effectiveness, management and re-design
- Health Protection including control of communicable diseases
- Health promotion and disease prevention
- Evaluation of public health programmes or interventions
- Public health governance, audit and quality
- Public health law and ethics
- Public health policy and comparisons
- Capacity in public health systems and workforce

This is not an exhaustive list and the Editors will consider articles on any issue relating to public health.

*Public Health* also publishes invited articles, reviews and supplements from leading experts on topical issues.

IMPACT FACTOR

2018: 1.696 © Clarivate Analytics Journal Citation Reports 2019
ABSTRACTING AND INDEXING

Scopus
PubMed/Medline
Current Contents
Embase
BIOSIS Citation Index
Cambridge Scientific Abstracts
Science Citation Index

EDITORIAL BOARD

Editors-in-Chief
Phil Mackie, NHS Health Scotland, Scottish Public Health Network, Edinburgh, United Kingdom
Fiona Sim, Association for Psychoanalytic Psychotherapy in the National Health Service, London, United Kingdom

Senior Associate Editors
Raheelah Ahmad, London, England, United Kingdom
Cathy Johnman, Glasgow, United Kingdom
Andrew Lee, Sheffield, United Kingdom
Joanne Morling, Nottingham, United Kingdom

Associate Editors
John Ford, Cambridge, United Kingdom
Ryan Swiers, Nottingham, United Kingdom

International Editorial Board
Rifat Atun, Cambridge, Massachusetts, United States
John Beard, Geneve, Switzerland
Petri Bockerman, TURKU, Finland
Noriko Cable, London, United Kingdom
Ann DeBaldo, Tampa, Florida, United States
Linda Degutis, Atlanta, Georgia, USA
Peter Donnelly, Toronto, Ontario, Canada
Mark Eisler, Bristol, United Kingdom
Brian Ferguson, York, United Kingdom
Robert Friis, Long Beach, California, United States
Jay Glasser, Houston, Texas, United States
John Goddeersis, East Lansing, Michigan, United States
Lawrence Gostin, Washington, District of Columbia, United States
Sian Griffiths, Sha Tin, Hong Kong
Michael Kelly, London, United Kingdom
Giuseppe La Torre, Roma, Italy
Seung Wook Lee, Seoul, Korea, Republic of
Roger Magnusson, Sydney, Australia
Gerry McCartney, Glasgow, United Kingdom
George Morris, Glasgow, United Kingdom
David Pencheon, Cambridge, United Kingdom
Mala Rao, London, United Kingdom
Devi Sridhar, Edinburgh, United Kingdom

Editorial Office
Melissa Davis, Royal Society for Public Health, John Snow House, 59 Mansell Street, E1 8AN, London, United Kingdom, Fax: +44 (0) 207 265 7301
Isabel Mattar, Royal Society for Public Health, John Snow House, 59 Mansell Street, E1 8AN, London, United Kingdom, Fax: +44 (0) 207 265 7301
GUIDE FOR AUTHORS

INTRODUCTION

Aims
Public Health is an international, multidisciplinary peer-reviewed journal. It publishes original papers, reviews and short communications on all aspects of the science, philosophy and practice of public health.

It is aimed at all public health practitioners and researchers and those who manage and deliver public health services and systems. It will also be of interest to anyone involved in provision of public health programmes, the care of populations or communities and those who contribute to public health systems in any way.

Scope
Public Health considers submissions on any aspect of public health across age groups and settings. These include:

- Public health practice and impact
- Applied epidemiology
- Need or impact assessments
- Health service effectiveness, management and re-design
- Health protection including control of communicable diseases
- Health promotion and disease prevention
- Evaluation of public health programmes or interventions
- Public health governance, audit and quality
- Public health law and ethics
- Public health policy and comparisons
- Capacity in public health systems and workforce

This is not an exhaustive list and the Editors will consider articles on any issue relating to the health of populations or the public.

Reviews and Supplements
Public Health publishes invited articles, reviews and supplements from leading experts on topical issues.

Organizations or individuals who wish to present proposals for supplements should contact the Editors at public.health@rsph.org.uk for a copy of the specific guidance on the publication of supplements.

Impact on Practice
Papers describing original research impacting on public health practice are particularly encouraged. Those describing a particular event (e.g. an outbreak of infectious disease) should be submitted as soon as possible. Fast track publication of suitable articles is possible; please contact the Editorial Office regarding this.

Papers are invited from anywhere in the world, and so authors are asked to ensure that sufficient context is provided for all readers to appreciate their contribution.

Types of paper
The types of papers that may be considered for inclusion are:
1) Original research, including evaluations of public health interventions or programmes, and public health practice original work on audit, workforce or resource development (see section 4.2);
2) Short communications (see section 4.3) and;
3) Review papers, which include meta-analysis and systematic review (see section 4.4)

We also consider the following papers:
1) Letters (see section 4.5);
2) Celebrating Public Health Lives: biographical articles about named individuals, living or deceased, who have made a special contribution to public health (see section 4.6).
We welcome student papers and encourage students to publish their work, e.g. originating from practice-based research, which will be subject to constructive peer review process.

On submission, authors should indicate in which category their contribution is to be considered. If authors are uncertain of the category to which their paper is best suited, they should make this clear in their covering letter to the Editors.

You may wish to consider referring to the Equator guidelines http://www.equator-network.org/, when submitting your paper.

Submission process
Papers submitted to Public Health are carefully reviewed in the first instance by one of the Editors. Papers that do not meet editorial needs; are methodically flawed; or lack originality will be rejected. We will also reject papers that fail to provide sufficient ethical approval where required (see section 9.3) and we shall refer papers back for revision prior to any review if they do not comply with Journal style.

Papers which pass the Editorial review will be sent out to peer-review and will be reviewed by at least two external reviewers (short communications will only be sent to one reviewer). Reviewers are asked to consider whether the paper: contains new research findings or information; is relevant to public health practice, is technically sound; and is suitably presented.

1. How to submit your manuscript
All manuscripts should be submitted online at http://ees.elsevier.com/puhe/ by clicking on the 'submit paper' link. Authors will first need to register their details, and can then submit their paper. Any author unable to submit online should contact the Editorial Office at public.health@rsph.org.uk

2. Correspondence
The official language of Public Health is British English. Support may be made available to overseas authors whose first language is not English.

Any correspondence (including books for review) should be sent to the Editorial Office as follows:

The Editors
Public Health Editorial Office
The Royal Society for Public Health
John Snow House
59 Mansell Street
London
E1 8AN
Tel: +44 (0)20 3177 1632
Fax: +44 (0)20 3177 1601
E-mail: public.health@rsph.org.uk

Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:
• E-mail address
• Full postal address

All necessary files have been uploaded:
Manuscript:
• Include keywords
• All figures (include relevant captions)
• All tables (including titles, description, footnotes)
• Ensure all figure and table citations in the text match the files provided
• Indicate clearly if color should be used for any figures in print
Graphical Abstracts / Highlights files (where applicable)
Supplemental files (where applicable)

Further considerations
• Manuscript has been ‘spell checked’ and ‘grammar checked’
• All references mentioned in the Reference List are cited in the text, and vice versa
• Permission has been obtained for use of copyrighted material from other sources (including the Internet)
• A competing interests statement is provided, even if the authors have no competing interests to declare
• Journal policies detailed in this guide have been reviewed
• Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Human and animal rights
Public Health is a member of the Committee on Publication Ethics (COPE), for more information please visit http://publicationethics.org

Papers describing research including human subjects will not be considered if ethical approval has not been sought.

Work on human beings that is submitted to Public Health should comply with the principles laid down in the Declaration of Helsinki; Recommendations guiding physicians in biomedical research involving human subjects. Adopted by the 18th World Medical Assembly, Helsinki, Finland, June 1964, amended by the 29th World Medical Assembly, Tokyo, Japan, October 1975, the 35th World Medical Assembly, Venice, Italy, October 1983, and the 41st World Medical Assembly, Hong Kong, September 1989.

The manuscript should contain a statement that the work has been approved by the appropriate ethical committees related to the institution(s) in which it was performed and that subjects gave informed consent to the work.

Studies involving experiments with animals must state that their care was in accordance with institution guidelines.

Studies on patients or volunteers require ethics committee approval and informed consent which should be documented in your paper. Patients have a right to privacy. Therefore identifying information, including patients images, names, initials, or hospital numbers, should not be included in videos, recordings, written descriptions, photographs, and pedigrees unless the information is essential for scientific purposes and you have obtained written informed consent for publication in print and electronic form from the patient (or parent, guardian or next of kin where applicable). If such consent is made subject to any conditions, Elsevier must be made aware of all such conditions. Written consents must be provided to Elsevier on request. Even where consent has been given, identifying details should be omitted if they are not essential. If identifying characteristics are altered to protect anonymity, such as in genetic pedigrees, authors should provide assurance that alterations do not distort scientific meaning and editors should so note. If such consent has not been obtained, personal details of patients included in any part of the paper and in any supplementary materials (including all illustrations and videos) must be removed before submission.

Declaration of interest
All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: 'Declarations of interest: none'. This summary statement will be ultimately published if the article is accepted.
2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal’s official records. It is important for potential interests to be declared in both places and that the information matches. More information.

Upon submission authors will be required to declare funding, competing interests and to indicate whether ethical approval was sought. This information must also be inserted into the manuscript under the ‘Acknowledgements’ section with the headings below. If there are no declarations to make, the following statements should be inserted into the manuscript:

Funding: None
Competing interests: None declared
Ethical approval: Not required (please add a brief explanation as to why ethical approval was not needed for this study).

Submission declaration and verification
Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service Crossref Similarity Check.

Preprints
Please note that preprints can be shared anywhere at any time, in line with Elsevier’s sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see ‘Multiple, redundant or concurrent publication’ for more information).

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').

Contributors
Each author is required to declare his or her individual contribution to the article: all authors must have materially participated in the research and/or article preparation, so roles for all authors should be described. The statement that all authors have approved the final article should be true and included in the disclosure.

Authorship
All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.
Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.
Reporting clinical trials
Randomized controlled trials should be presented according to the CONSORT guidelines. At manuscript submission, authors must provide the CONSORT checklist accompanied by a flow diagram that illustrates the progress of patients through the trial, including recruitment, enrollment, randomization, withdrawal and completion, and a detailed description of the randomization procedure. The CONSORT checklist and template flow diagram are available online.

Registration of clinical trials
Registration in a public trials registry is a condition for publication of clinical trials in this journal in accordance with International Committee of Medical Journal Editors recommendations. Trials must register at or before the onset of patient enrolment. The clinical trial registration number should be included at the end of the abstract of the article. A clinical trial is defined as any research study that prospectively assigns human participants or groups of humans to one or more health-related interventions to evaluate the effects of health outcomes. Health-related interventions include any intervention used to modify a biomedical or health-related outcome (for example drugs, surgical procedures, devices, behavioural treatments, dietary interventions, and process-of-care changes). Health outcomes include any biomedical or health-related measures obtained in patients or participants, including pharmacokinetic measures and adverse events. Purely observational studies (those in which the assignment of the medical intervention is not at the discretion of the investigator) will not require registration.

Copyright
Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see more information on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has preprinted forms for use by authors in these cases.

For gold open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (more information). Permitted third party reuse of gold open access articles is determined by the author's choice of user license.

Author rights
As an author you (or your employer or institution) have certain rights to reuse your work. More information.

Elsevier supports responsible sharing
Find out how you can share your research published in Elsevier journals.

Role of the funding source
You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

Funding body agreements and policies
Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the gold open access publication fee. Details of existing agreements are available online. After acceptance, open access papers will be published under a noncommercial license. For authors requiring a commercial CC BY license, you can apply after your manuscript is accepted for publication.

Open access
This journal offers authors a choice in publishing their research:

Subscription
• Articles are made available to subscribers as well as developing countries and patient groups through our universal access programs.
• No open access publication fee payable by authors.
• The Author is entitled to post the accepted manuscript in their institution's repository and make this public after an embargo period (known as green Open Access). The published journal article cannot be shared publicly, for example on ResearchGate or Academia.edu, to ensure the sustainability of peer-reviewed research in journal publications. The embargo period for this journal can be found below.

**Gold open access**
• Articles are freely available to both subscribers and the wider public with permitted reuse.
• A gold open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For gold open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:

*Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)*
For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The gold open access publication fee for this journal is **USD 2800**, excluding taxes. Learn more about Elsevier's pricing policy: [https://www.elsevier.com/openaccesspricing](https://www.elsevier.com/openaccesspricing).

**Green open access**
Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our open access page for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. Find out more.

This journal has an embargo period of 12 months.

**Language (usage and editing services)**
Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's Author Services.

**Submission**
Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor's decision and requests for revision, is sent by e-mail.

*Submit your article*
Please submit your article via [http://ees.elsevier.com/puhe](http://ees.elsevier.com/puhe).

**PREPARATION**

**Double-blind review**
This journal uses double-blind review, which means the identities of the authors are concealed from the reviewers, and vice versa. More information is available on our website. To facilitate this, please include the following separately:

*Title page (with author details):* This should include the title, authors' names, affiliations, acknowledgements and any Declaration of Interest statement, and a complete address for the corresponding author including an e-mail address.
Blinded manuscript (no author details): The main body of the paper (including the references, figures, tables and any acknowledgements) should not include any identifying information, such as the authors’ names or affiliations.

Use of word processing software
It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor’s options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.
To avoid unnecessary errors you are strongly advised to use the ‘spell-check’ and ‘grammar-check’ functions of your word processor.

Article structure
4.2 Original research, including evaluation papers
Click here for an example
Papers should be clear, precise and logical and should not normally exceed 3,000 words.

Original research papers should be set out as follows:
• Covering letter-the letter must contain: why the submission is appropriate for publication in Public Health; what is known about the topic discussed; what your study adds; and confirmation that the paper has not been published elsewhere
• Title page- bearing title, all authors' initials, surname, main degrees (two only) and the name and location of the institution(s) where the work was done. The author to whom proofs and correspondence should be sent should be clearly indicated with correct address, e-mail, telephone and fax details.
• Abstract. This should be structured under the following headings:
  Objectives
  Study design
  Methods
  Results
  Conclusions
  • Keywords. 3-6 keywords should follow the abstract
  • Introduction
  • Methods
  • Results
  • Discussion
  • Acknowledgements including declarations: Statements of ethical approval, funding and competing interests (see section 9)
  • References (see section 10)

Please note that any costs for reproducing material whose copyright is not held by the authors or the RSPH is to be met by the authors.

Tables and figures
Tables and figures should be kept to a minimum. Tables must be comprehensible without reference to the text if possible. References can be cited in the tables if needed. Authors should indicate at approximately what point in the text the table should appear. Figures, graphs, drawings etc. should not be over complex and must be intelligible when reduced in size for printing. They should be on separate sheets, numbered and with legends.

Tables
Number tables consecutively in accordance with their appearance in the text. Place footnotes to tables below the table body and indicate them with superscript lowercase letters. Avoid vertical rules. Be sparing in the use of tables and ensure that the data presented in tables do not duplicate results described elsewhere in the article.
4.3 Short communications

A short communication is preferred for the submission of important preliminary observations or data that does not warrant publication as a full paper. Short communications should be approximately 500-1500 words in length and provide adequate information to allow for the same peer review given to other submissions.

- A structured abstract will be required during the online submission process.

- Keywords will also be required. However, specific sections, such as Methods, should not be used in the manuscript itself.

- A short communication can include one table or figure and up to 10 references. Preliminary data published as a short communication will not preclude subsequent publication of more complete results if the work is significantly expanded.

4.4 Review papers

Systematic Review papers presenting exhaustive, critical assessments of the published literature on relevant public health topics or questions will be considered. Such reviews should be prepared in strict compliance with MOOSE or PRISMA guidelines or with Cochrane's complementary guidelines for systematic reviews of health promotion and public health interventions, as appropriate. Public Health encourages authors to use alternative databases covering scientific literature from low- and middle-income countries not indexed in the traditional international databases (i.e. Medline, Web of Science). All systematic reviews need to be submitted with a supporting statement of which guideline has been used in the preparation of the review.

Narrative Review papers will be considered by Public Health. Whilst no formal guidelines for such reviews exist, authors should be very clear in what criteria they have used for the selection of studies and describe the methods used to undertake the review in the body of the paper. Generally speaking, narrative reviews will only be considered where the author(s) are clearly experts in the research field under consideration or the public health issue under consideration is not amenable to systematic review. The reviews needs to be submitted with a supporting statement justifying the appropriateness of undertaking a narrative review.

Review papers should not exceed 3000 words. They should include a Structured Abstract: Tables/Illustrations can be included up to a maximum of 5, though larger tables may be included only on the electronic version of the paper.

References: up to a maximum of 100.

4.5 Letters

Readers are encouraged to submit Letters to the Editors and these can include responses to previously published papers or original data.

Authors will be given the opportunity to comment and respond to any correspondence we intend to include in the `Letters to the Editors' regarding their previously published manuscript.

4.6 Celebrating Public Health Lives

Papers should be clear, precise and logical and should not normally exceed 1,500 words in length.

An abstract is not required and specific sections, such as methods, discussion etc, should not be used.

Keywords are not required.

**Essential title page information**

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
• **Author names and affiliations.** Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

• **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. **Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.**

• **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

**Highlights**

Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). You can view example Highlights on our information site.

**Graphical abstract**

Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site.

Authors can make use of Elsevier's Illustration Services to ensure the best presentation of their images and in accordance with all technical requirements.

**Acknowledgements**

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

**Formatting of funding sources**

List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

**Artwork**

**Electronic artwork**

**General points**

• Make sure you use uniform lettering and sizing of your original artwork.

• Embed the used fonts if the application provides that option.

• Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
• Number the illustrations according to their sequence in the text.
• Use a logical naming convention for your artwork files.
• Provide captions to illustrations separately.
• Size the illustrations close to the desired dimensions of the published version.
• Submit each illustration as a separate file.

A detailed guide on electronic artwork is available.

You are urged to visit this site; some excerpts from the detailed information are given here.

**Formats**

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.

Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

- EPS (or PDF): Vector drawings, embed all used fonts.
- TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
- TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
- TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

**Please do not:**

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

**Color artwork**

Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version.

For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article. Please indicate your preference for color: in print or online only. Further information on the preparation of electronic artwork.

**References**

**Citation in text**

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

**Reference management software**

Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley. Using citation plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal's style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes from different reference management software.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:

http://open.mendeley.com/use-citation-style/public-health

When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.
Reference style

Text: Indicate references by superscript numbers in the text. The actual authors can be referred to, but the reference number(s) must always be given.

List: Number the references in the list in the order in which they appear in the text.

Examples:
Reference to a journal publication:

Reference to a journal publication with an article number:

Reference to a book:

Reference to a chapter in an edited book:

Reference to a website:

Reference to a dataset:

Note shortened form for last page number. e.g., 51–9, and that for more than 6 authors the first 6 should be listed followed by 'et al.' For further details you are referred to 'Uniform Requirements for Manuscripts submitted to Biomedical Journals' (J Am Med Assoc 1997;277:927–34)(see also Samples of Formatted References).

Data visualization

Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

Research data

This journal encourages and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project.

Below are a number of ways in which you can associate data with your article or make a statement about the availability of your data when submitting your manuscript. If you are sharing data in one of these ways, you are encouraged to cite the data in your manuscript and reference list. Please refer to the "References" section for more information about data citation. For more information on depositing, sharing and using research data and other relevant research materials, visit the research data page.

Data linking

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.

There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the database linking page.

For supported data repositories a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).
**Mendeley Data**

This journal supports Mendeley Data, enabling you to deposit any research data (including raw and processed data, video, code, software, algorithms, protocols, and methods) associated with your manuscript in a free-to-use, open access repository. During the submission process, after uploading your manuscript, you will have the opportunity to upload your relevant datasets directly to Mendeley Data. The datasets will be listed and directly accessible to readers next to your published article online.

For more information, visit the Mendeley Data for journals page.

**Data statement**

To foster transparency, we encourage you to state the availability of your data in your submission. This may be a requirement of your funding body or institution. If your data is unavailable to access or unsuitable to post, you will have the opportunity to indicate why during the submission process, for example by stating that the research data is confidential. The statement will appear with your published article on ScienceDirect. For more information, visit the Data Statement page.

**AFTER ACCEPTANCE**

**Online proof correction**

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.

If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

**Offprints**

The corresponding author will, at no cost, receive 25 free paper offprints, or alternatively a customized Share Link providing 50 days free access to the final published version of the article on ScienceDirect. The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier's Author Services. Corresponding authors who have published their article gold open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

**AUTHOR INQUIRIES**

Visit the Elsevier Support Center to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.

You can also check the status of your submitted article or find out when your accepted article will be published.